

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-270500

(43)Date of publication of application : 02.12.1991

(51)Int.Cl.

H04R 17/00  
H04R 17/00

(21)Application number : 02-070375

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(22)Date of filing : 20.03.1990

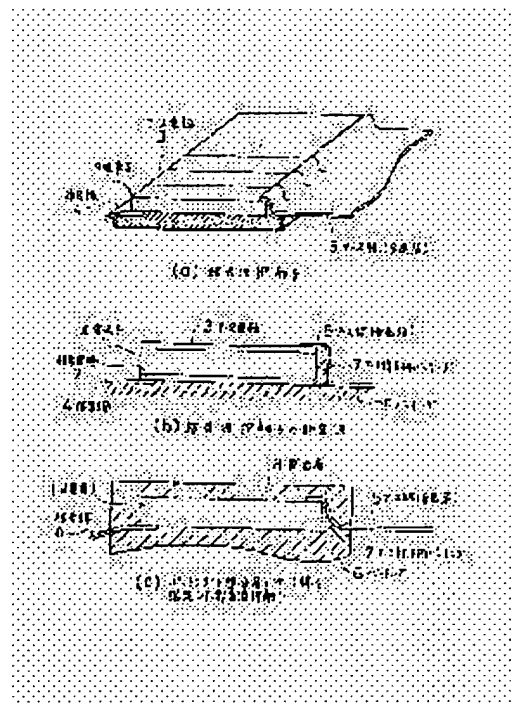
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## (54) ULTRASONIC PROBE AND MANUFACTURE THEREOF

### (57)Abstract:

**PURPOSE:** To obtain an ultrasonic probe with high reliability without peeling a matching layer or the like by closely fixing the leading-out line of a ground line by backing and the matching layer.

**CONSTITUTION:** A signal line is led out of a signal electrode 2 of a plane piezoelectric element 1 by using FPC. The metal foils to be the ground line are soldered to a ground electrode 3, once bent in the direction of a signal electrode surface near the end part of the piezoelectric element and further bent so as to be led out in the opposite direction of the signal line on the surface of backing. Next, when executing backing to the surface of the signal electrode, a ground line support backing 7 is provided so as to support the ground line. When a matching layer 8 is provided, the ground line is closely fixed by the backings 6 and 7 and the matching layer 8. Thus, the ultrasonic probe with high reliability can be obtained without peeling the matching layer 8.



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